RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/626,477_

Source: _IFW_

Date Processed by STIC: _9/30/04_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: _10/626,477_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 ___ Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
prevent "wrapping."

·2 ___ Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

·3 ___ Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
Numbering   use space characters, instead.

4 ___ Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
ensure your subsequent submission is saved in ASCII text.

5 ___ Variable Length   Sequence(s) ___ contain n's or Xaa's representing more than one residue. Per Sequence Rules,
each n or Xaa can only represent a single residue. Please present the maximum number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ___ PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
"bug"   sequences(s) ___. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.**

7 ___ Skipped Sequences   Sequence(s) ___ missing. If intentional, please insert the following lines for each skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ___ Skipped Sequences   Sequence(s) ___ missing. If intentional, please insert the following lines for each skipped sequence.
(NEW RULES)   <210> sequence id number
<400> sequence id number
000

9 ___ Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 ___ Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
is Artificial Sequence.

11 ___ Use of <220>   Sequence(s) ___ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
"Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ___ PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ___ Misuse of n/Xaa   "n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

AMC – Biotechnology Systems Branch – 09/09/2003

IFWO

RAW SEQUENCE LISTING   DATE: 09/30/2004
PATENT APPLICATION: US/10/626,477   TIME: 11:18:07

        Input Set : N:\LMOORE\PTO.LM.txt
        Output Set: N:\CRF4\09302004\J626477.raw

   3 <110> APPLICANT: Keller, Martin
   4   Zengler, Karsten
   6 <120> TITLE OF INVENTION: High Throuput or Capillary-Based Screening for a
Bioactivity or
   7   Biomolecule
   9 <130> FILE REFERENCE: 564462008100
  11 <140> CURRENT APPLICATION NUMBER: 10/626,477
  12 <141> CURRENT FILING DATE: 2003-07-23
  14 <150> PRIOR APPLICATION NUMBER: 10/145,281
  15 <151> PRIOR FILING DATE: 2002-05-13
  17 <150> PRIOR APPLICATION NUMBER: 09/985,432
  18 <151> PRIOR FILING DATE: 2000-10-10
  20 <150> PRIOR APPLICATION NUMBER: 09/444,112
  21 <151> PRIOR FILING DATE: 1999-11-22
  23 <150> PRIOR APPLICATION NUMBER: 09/098,206
  24 <151> PRIOR FILING DATE: 1998-06-16
  26 <150> PRIOR APPLICATION NUMBER: 08/876,276
  27 <151> PRIOR FILING DATE: 1997-06-16
  29 <160> NUMBER OF SEQ ID NOS: 9
  31 <170> SOFTWARE: PatentIn version 3.2
  33 <210> SEQ ID NO: 1
  34 <211> LENGTH: 20
  35 <212> TYPE: DNA
  36 <213> ORGANISM: forward primer (27F)
  38 <400> SEQUENCE: 1
  39 agagtttgat cctggctcag   20
  42 <210> SEQ ID NO: 2
  43 <211> LENGTH: 19
  44 <212> TYPE: DNA
  45 <213> ORGANISM: reverse primer (1492R)
  47 <400> SEQUENCE: 2
  48 ggttaccttg ttacgactt   19
  51 <210> SEQ ID NO: 3
  52 <211> LENGTH: 24
  53 <212> TYPE: DNA
  54 <213> ORGANISM: vector specific primer (CA98)
  56 <400> SEQUENCE: 3
  57 acttccggct cgtatattgt gtgg   24
  60 <210> SEQ ID NO: 4
  61 <211> LENGTH: 25
  62 <212> TYPE: DNA
  63 <213> ORGANISM: vector specific primer (CA103)
  65 <400> SEQUENCE: 4
  66 acgactcact ataggcgaa ttggg   25

RAW SEQUENCE LISTING   DATE: 09/30/2004
PATENT APPLICATION: US/10/626,477   TIME: 11:18:07

Input Set : N:\LMOORE\PTO.LM.txt
Output Set: N:\CRF4\09302004\J626477.raw

```
 69 <210> SEQ ID NO: 5
 70 <211> LENGTH: 131
 71 <212> TYPE: PRT
 72 <213> ORGANISM: unknown environmental sample
W--> 74 <220> FEATURE:
W--> 74 <223> OTHER INFORMATION:
W--> 74 <400> 5
 76 Ser Thr Gly Cys Thr Ser Gly Leu Asp Ser Val Gly Tyr Ala Val Gln
 77 1               5                   10                  15
 80 Leu Ile Arg Glu Gly Ser Ala Asp Val Val Ile Ala Gly Ala Ala Asp
 81             20                  25                  30
 84 Thr Pro Val Ser Pro Ile Val Val Ala Cys Phe Asp Ala Ile Lys Ala
 85         35                  40                  45
 88 Thr Thr Pro Arg Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe Asp
 89     50                  55                  60
 92 Gly Thr Arg Asn Gly Phe Val Leu Ala Glu Gly Ala Ala Met Phe Val
 93 65                  70                  75                  80
 96 Leu Glu Glu Tyr Glu Ala Ala Lys Arg Arg Gly Ala His Ile Tyr Ala
 97                 85                  90                  95
100 Glu Val Gly Gly Tyr Ala Thr Arg Cys Asn Ala Tyr His Met Thr Gly
101             100                 105                 110
104 Leu Lys Lys Asp Gly Arg Glu Met Ala Glu Ala Ile Arg Ala Ala Leu
105             115                 120                 125
108 Asp Glu Ala
109         130
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 132
114 <212> TYPE: PRT
115 <213> ORGANISM: S. cyaneus
117 <400> SEQUENCE: 6
119 Val Ser Thr Gly Cys Thr Ser Gly Leu Asp Ala Val Gly Tyr Ala Phe
120 1               5                   10                  15
123 His Thr Ile Glu Glu Gly Arg Ala Asp Val Cys Ile Ala Gly Ala Ser
124             20                  25                  30
127 Asp Ser Pro Ile Ser Pro Ile Thr Met Ala Cys Phe Asp Ala Ile Lys
128             35                  40                  45
131 Ala Thr Ser Pro Asn Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe
132     50                  55                  60
135 Asp Ala His Arg Asp Gly Phe Val Met Gly Glu Gly Ala Ala Val Leu
136 65                  70                  75                  80
139 Val Leu Glu Glu Leu Glu His Ala Arg Ala Arg Gly Ala His Val Tyr
140             85                  90                  95
143 Cys Glu Ile Gly Gly Tyr Ala Thr Phe Gly Asn Ala Tyr His Met Thr
144             100                 105                 110
147 Gly Leu Thr Ser Glu Gly Leu Glu Met Ala Arg Ala Ile Asp Val Ala
148             115                 120                 125
151 Leu Asp His Ala
152         130
155 <210> SEQ ID NO: 7
```

handwritten annotations: This is an invalid <213> response

This belongs on <223> line

(see p. 5 for error explanation)

RAW SEQUENCE LISTING   DATE: 09/30/2004
PATENT APPLICATION: US/10/626,477   TIME: 11:18:07

Input Set : **N:\LMOORE\PTO.LM.txt**
Output Set: **N:\CRF4\09302004\J626477.raw**

```
156 <211> LENGTH: 132
157 <212> TYPE: PRT
158 <213> ORGANISM: S. halstedii
160 <400> SEQUENCE: 7
162 Val Ser Thr Gly Cys Thr Ser Gly Leu Asp Ala Val Gly Tyr Ala Tyr
163 1              5                   10                  15
166 His Ala Ile Ala Glu Gly Arg Ala Asp Val Cys Leu Ala Gly Ala Ser
167             20                  25                  30
170 Asp Ser Pro Ile Ser Pro Ile Thr Met Ala Cys Phe Asp Ala Ile Lys
171         35                  40                  45
174 Ala Thr Ser Pro Ser Asn Asp Asp Pro Glu His Ala Ser Arg Pro Phe
175     50                  55                  60
178 Asp Ala Arg Arg Asn Gly Phe Val Met Gly Glu Gly Gly Ala Val Leu
179 65                  70                  75                  80
182 Val Leu Glu Glu Leu Glu His Ala Arg Ala Arg Gly Ala Asp Val Tyr
183             85                  90                  95
186 Cys Glu Leu Ala Gly Tyr Ala Thr Phe Gly Asn Ala His His Met Thr
187             100                 105                 110
190 Gly Leu Thr Arg Glu Gly Leu Glu Met Ala Arg Ala Ile Asp Thr Ala
191             115                 120                 125
194 Leu Asp Met Ala
195     130
198 <210> SEQ ID NO: 8
199 <211> LENGTH: 132
200 <212> TYPE: PRT
201 <213> ORGANISM: S. peucetius
203 <400> SEQUENCE: 8
205 Val Ser Ala Gly Cys Thr Ser Gly Ile Asp Ser Ile Gly Tyr Ala Cys
206 1              5                   10                  15
209 Glu Leu Ile Arg Glu Gly Thr Val Asp Ala Met Val Ala Gly Gly Val
210             20                  25                  30
213 Asp Ala Pro Ile Ala Pro Ile Thr Val Ala Cys Phe Asp Ala Ile Arg
214         35                  40                  45
217 Ala Thr Ser Asp His Asn Asp Thr Pro Glu Thr Ala Ser Arg Pro Phe
218     50                  55                  60
221 Ser Arg Ser Arg Asn Gly Phe Val Leu Gly Glu Gly Gly Ala Ile Val
222 65                  70                  75                  80
225 Val Leu Glu Glu Ala Glu Ala Ala Val Arg Arg Gly Ala Arg Ile Tyr
226             85                  90                  95
229 Ala Glu Ile Gly Gly Tyr Ala Ser Arg Gly Asn Ala Tyr His Met Thr
230             100                 105                 110
233 Gly Leu Arg Ala Asp Gly Ala Glu Met Ala Ala Ala Ile Thr Ala Ala
234             115                 120                 125
237 Leu Asp Glu Ala
238     130
241 <210> SEQ ID NO: 9
242 <211> LENGTH: 132
243 <212> TYPE: PRT
244 <213> ORGANISM: E. coli
```

RAW SEQUENCE LISTING   DATE: 09/30/2004
PATENT APPLICATION: US/10/626,477   TIME: 11:18:07

Input Set : **N:\LMOORE\PTO.LM.txt**
Output Set: **N:\CRF4\09302004\J626477.raw**

```
246 <400> SEQUENCE: 9
248 Ile Ala Thr Ala Cys Thr Ser Gly Val His Asn Ile Gly His Ala Ala
249 1               5                   10            15
252 Arg Ile Ile Ala Tyr Gly Asp Ala Asp Val Met Val Ala Gly Gly Ala
253             20                  25              30
256 Glu Lys Ala Ser Thr Pro Leu Gly Val Gly Gly Phe Gly Ala Ala Arg
257         35                  40              45
260 Ala Leu Ser Thr Arg Asn Asp Asn Pro Gln Ala Ala Ser Arg Pro Trp
261     50                  55              60
264 Asp Lys Glu Arg Asp Gly Phe Val Leu Gly Asp Gly Ala Gly Met Leu
265 65                  70              75                  80
268 Val Leu Glu Glu Tyr Glu His Ala Lys Lys Arg Gly Ala Lys Ile Tyr
269             85                  90                  95
272 Ala Glu Leu Val Gly Phe Gly Met Ser Ser Asp Ala Tyr His Met Thr
273             100                 105             110
276 Ser Pro Pro Glu Asn Gly Ala Gly Ala Ala Leu Ala Met Ala Asn Ala
277         115                 120             125
280 Leu Arg Asp Ala
281     130
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/30/2004
PATENT APPLICATION: US/10/626,477   TIME: 11:18:08

No Explanation , Input Set : **N:\LMOORE\PTO.LM.txt**
Output Set: **N:\CRF4\09302004\J626477.raw**

Use of <220> Feature(NEW RULES):
Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:5